8 Um:

Each

Monday, 07/04/2008 2:30:08 PM Julie Lecocq User **Process Sheet** Customer : CU-DAR001 Dart Helicopters Services **Drawing Name** : BRACKET ASSEMBLY Job Number : 38444 : 10291 **Estimate Number** : D3183044 P.O. Number **Part Number** : 07/04/2008 S.O. No. : . D3183 REV C1 This Issue **Drawing Number** Prsht Rev. : NC : N/A **Project Number** : 1T : MACHINED PARTS First Issue : C1 Type **Drawing Revision** : 36400 Material **Previous Run** : 30/04/2008 Qty: **Due Date** Written By Checked & Approved By Comment : Est Rev:Pick:A 04.02.18 New issue KJ/DS **Additional Product** Job Number: Seq. #: **Machine Or Operation:** Description: 1.0 M174B2000X01500 17-4 SS Bar Comment: Qty.: 0.4812 f(s)/Unit Total: 3.8497 f(s) Material: 17-4 SS Bar per AMS 5604/5643 (M17-4-B1.500x02.000) Identify for D3183-4 Batch: M19478 2.0 BAND SAW BAND SAW Comment: BAND SAW Cut blanks: (1.500" x 2.000") 5.500" long 3.0 HAAS CNC VERTICAL MACHINING #1 Comment: HAAS CNC VERTICAL MACHINING #1 1-Machine D3183-4 as per Folio FA322 and Dwg D3183 Identify as D3183-4 ٤ 2-Deburr

3-Scribe batch number

INSPECT PARTS AS THEY COME OFF MACHINE

, Jan

Comment: INSPECT PARTS AS THEY COME OFF MACHINE

4.0

QC2

Monday, 07/04/2008 2:30:08 PM Date: • User: Julie Lecocq **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services Drawing Name: BRACKET ASSEMBLY Job Number: 38444 Part Number: D3183044 Job Number: Seq. #: **Machine Or Operation:** Description: QC8 SECOND CHECK 5.0 Comment: SECOND CHECK 05/23 D312121 6.0 Bolt 2.0000 Each(s)/Unit Total: 16.0000 Each(s) Comment: Qty.: Pick: Description Batch
Bolt 139047 **Qty Part Number** 2 D3121-21 D3183045 Bearing Assembly 7.0 Comment: Qty.: 2.0000 Each(s)/Unit Total: 16.0000 Each(s) Pick: **Qty Part Number** Description Batch 38104 2 D3183-045 Bearing Ass 8.0 Comment: SMALL & MEDIUM FAB RESOURCE 1 Assemble D3183-043 as per Dwg D3183. INSPECT WORK TO CURREN 9.0 QC5 Comment: INSPECT WORK TO CURRENT STEP PACKAGING 1 PACKAGING RESOURCE #1 10.0 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: 233 QC21 11.0 Comment: FINAL INSPECTION/W/O RELEASE Job Completion

Page 2

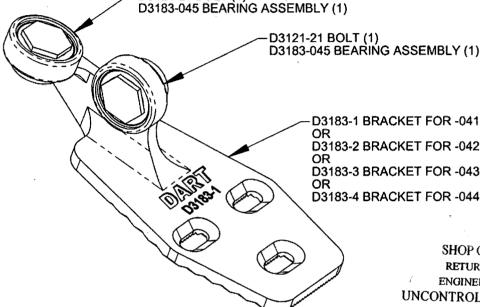




	# 0		DRAWN BY	DART AEROSPACE HAWKESBURY, ONTARIO, CAR			
			APPROVED	D3183	REV. C		
	DATE 9		<u> </u>	TITLE	SHEET 1 OF 4 SCALE		
	04.02.17			BRACKET ASSEMBLY	1:1		
	Α.	0	3.01.24	NEW ISSUE			
	В	B 03.06.17		REMOVE BEARING; 1.012 WS 0.882			
	C	.0	4.02.17	ADD -045/-9; 0.182 WAS 0.431			

04.11.09 0.830 WAS 0.850

D3121-21 BOLT (1) D3183-045 BEARING ASSEMBLY (1)



D3183-1 BRACKET FOR -041 (SHOWN)

D3183-2 BRACKET FOR -042 (OPPOSITE)

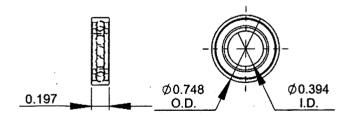
D3183-3 BRACKET FOR -043 (SIMILAR)

D3183-4 BRACKET FOR -044 (SIMILAR)

D3183-041 BRACKET ASSEMBLY (SHOWN)
D3183-042 BRACKET ASSEMBLY (OPPOSITE)
D3183-043 BRACKET ASSEMBLY (SIMILAR)

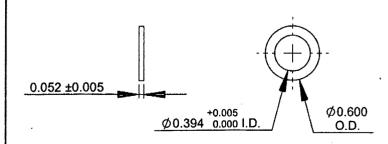
SHOP COPY **RETURN TO** ENGINEERING **UNCONTROLLED COPY** SUBJECT TO AMENDMENT

WITHOUT NOTICE WORK ORDER NO.



## **D3183-5 BEARING:** SPECIFICATION CONTROL DRAWING

- 1) SINGLE ROW, DEEP GROOVE, CONRAD TYPE, SHIELDED 2) POSSIBLE SUPPLIER: NSK P/N 6800ZZ
- 3) ALL DIMENSIONS ARE IN INCHES

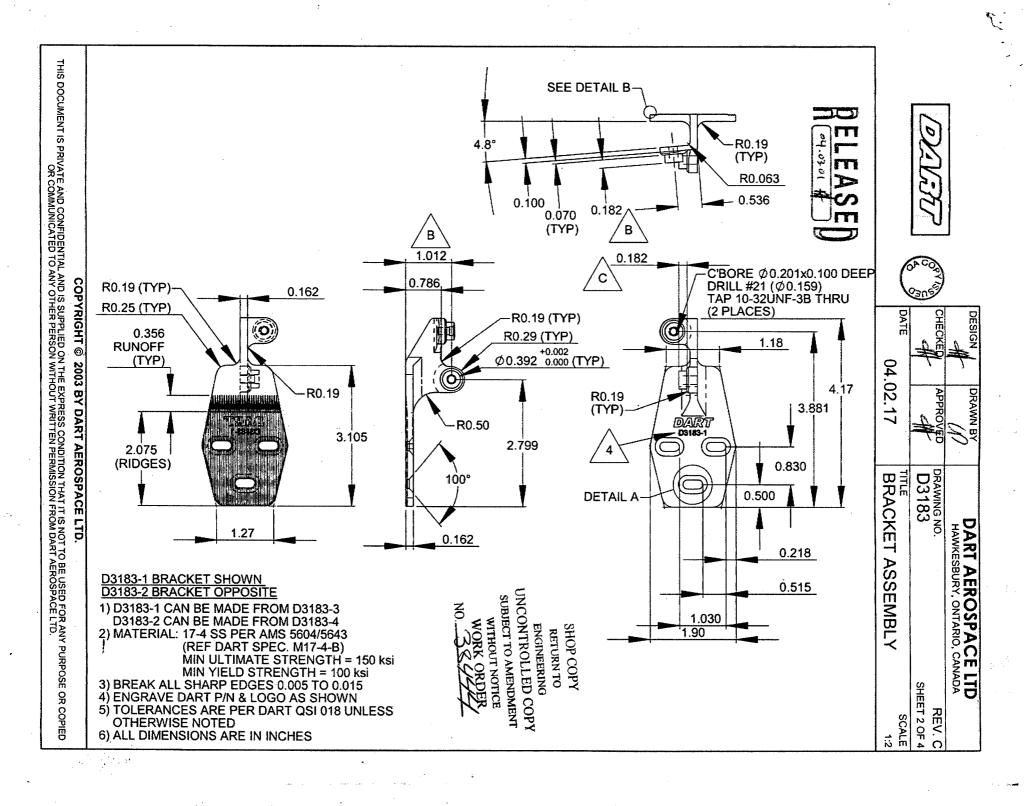


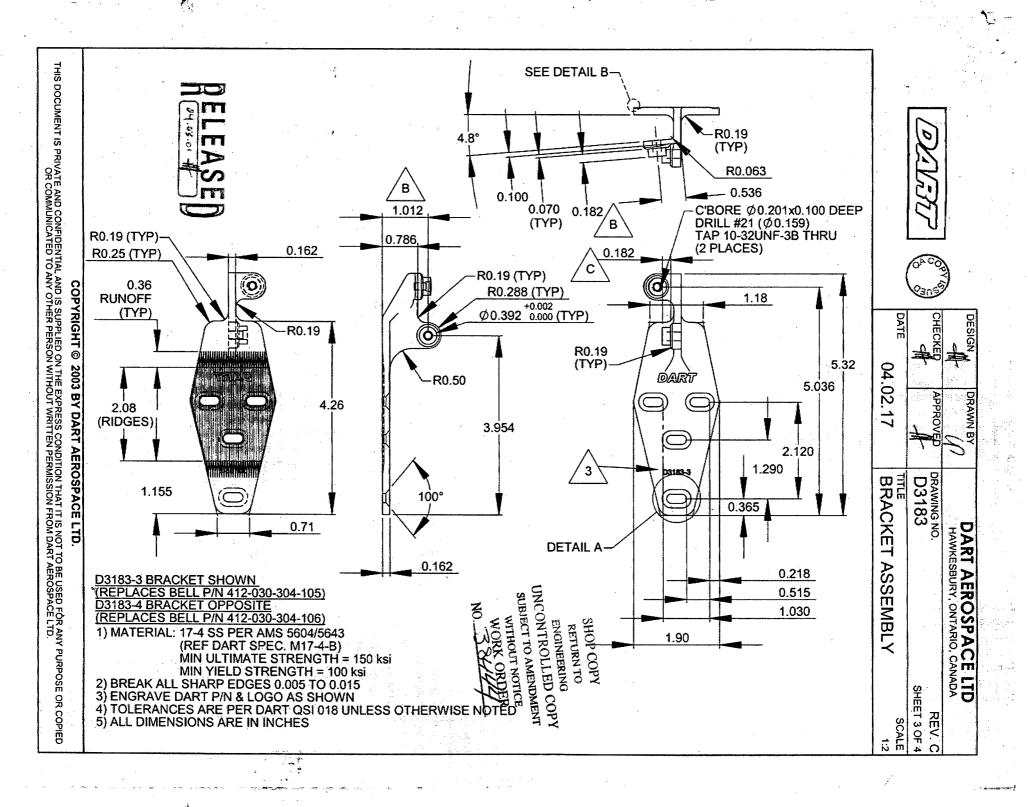
# **D3183-7 WASHER**

- 1) MATERIAL: AISI 303 ROUND BAR (M303R) ANNEALED
- 2) BREAK ALL SHARP EDGES 0.005 TO 0.010
- 3) TOLERANCES ARE PER DART QSI 018 **UNLESS OTHERWISE NOTED**
- 4) ALL DIMENSIONS ARE IN INCHES

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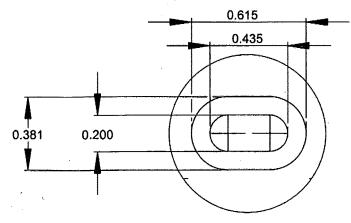








DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
CHECKED	APPROVED	DRAWING NO.	REV. C	
	16	D3183	SHEET 4 OF 4	
DATE	•	TITLE	SCALE	
04	.02.17	BRACKET ASSEMBLY	1:1	



**DETAIL A (2:1)** 

**DETAIL B (20:1)** 

0.050 (TYP) 0.025 (TYP) 0.032 SHOP COPY RETURN TO ENGINEERING

0.276 0.199±0.001 0.039 R0.031 0.720 -0.850 ±0.002 0.747 0.830 ±0.001 /c/ R0.010 **SECTION C-C SCALE 2:1** 

12.00

### D3183-9 CAP

1) MATERIAL: DELRIN ROD, Ø1.00 (REF DART SPEC. M-DELRIN-R1.00) 2) TOLERANCES ARE PER DART QSI 018

UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE

WORK ORDER

- **UNLESS OTHERWISE NOTED**
- 3) ALL DIMENSIONS ARE IN INCHES

# D3183-045 BEARING ASSEMBLY

1) ASSEMBLE D3183-5 BEARING AND D3183-9 CAP

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DART AEROSPACE LTD	Work Order:	38444
Description Greentubes STACKET ASSEABLY	Part Number:	D3183-4
Inspection Dwg: D3(83 Rev: C1		Page 1 of # 2

# FIRST ARTICLE INSPECTION CHECKLIST

	*	<del>[</del> ]	
X	First Article	Prototype	9
1 1	,	1 1	_

Inspection Sheet Tolerance			Actual	Accept	Reject	Method of	Comments
Dr	awing Dimension		Dimension	-	à à	Inspection	
	R O.19	+/030	R 0.19	<b>/</b>	**		
	RO. 25	+/030	R 0.25	<b>/</b>			
	0,36	+/030	0.365	<b>/</b>			
	2.08	+/030	2.08	<b>'</b>			
	持事于1.155	+/-,010	1.147	V		~-	
	0.71	+/-,030	0.71	~			
	4.26	+/-,030	4.260	~			
VIIII S	RO, 19	+/030	RO.19	<b>V</b>			
勝	0.162	+/010	0.159	~			
•	1.012	+/-,010	1,009	<b>レ</b>			
	.786	+/-,010	.785	>			
	R 0.19	+1-1030	R 0, 19	/			
Ì	RO.288	+/010	RO.288	4			
	00.392	+.002	00.3926				
	R 0.50	+1-1030	R 0.50	<u> </u>			
	3.954	+/-,010	3,951	<u> </u>	• •		
	100°	+/10	1000	<u> </u>			
	0.162	+1010	0, 158				
1 \	0.182	+/-,010	0.182	<b>V</b>			
KY	Ø.201	+.005/000	200	<u>'</u>			
00	4.100	+1010	.100	✓ <u> </u>			
	1, 118	+/-,010	1.118	~			
an a	RO. 19	+/030	RO.19	<u></u>			•
STEE BY	5,32	+/030	5.325	<u> </u>	,		•
85	5.036	+/-,010	5.037	レ			
	2,120	+/-,010	2,120				
	1.290	+/010	1.290	/			·
	0.365	+/-,010	0.366	V			·
	0.218	4/010	0.216				
	0.515	+/-,010	0.514	<b>/</b>			· · · · · · · · · · · · · · · · · · ·
	1.030	+/010	1.033				
	1.90	+1-1030	1.888	レ			

Measured by: M, A / M Audited by: J Prototype Approval: N/A

Date: 08/05/21

Date: 08/05/23

Date: N/A

Rev	Date	Change		Revised by	Approved
Α		New Issue	فيرمن	KJ/JLM	

DART AEROSPACE LTD	Work Order:	38444
Description: Cocotube Assembly BRACKET ACSEMBLY	Part Number:	D3183-4
Inspection Dwg: D3183 Rev: C1		Page # of #

FIRST ARTICLE INSPECTION CHECKLIST

X First Article

Prototype

2 2

Inspection Sheet Drawing Dimension		Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
	4.80	+/10	4.80	1	9.5		
	0.100	4/010	0.107	/			
	0.070	+/-,010	0.070				
	0.182	+/-,010	0.182				
	0.536	+/-,010	0.532	<u> </u>			
	RO. 19	RED . 19 1/030		1			
er)	R0.063	20.0531/.ok			ļ		
THE STATES	0.182	+/010	0.18				
概							
	0.615	+/010	0,618				
	0.435	1/010	0,439	<i></i>			
	0.381	+/-,010	0.384				
	0.200	+/-1010	0.206				
	0.032	+/-,010	0.031				
	0,050	+,010	0.053	1			
-	0,025	+/010	0,026			· · · · · · · · · · · · · · · · · · ·	
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Measu	red by:	B.A/ and	Audited by:	J.L.	Prototyp	e Approval:	N/A
	Date:	08/05/21	Date:	08/05/26		Date:	N/A
Rev	Date	Change				Revised by	Approved
Α		New Issue		1.	و عي هو ا	KJ/JI M	